

U. S. GEOLOGICAL SURVEY
ANNUAL PEAK FLOW FREQUENCY ANALYSIS
Following Bulletin 17-B Guidelines
Program peakfq
(Version 4.0, December, 2000)

Station - 05367480 EAST BR PINE CREEK TRIBUTARY NR DALLAS, WI
2002 MAR 13 09:02:55

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	34
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	34
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.320
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	0.0
User supplied high outlier threshold	=	--
User supplied low outlier criterion	=	--
Plotting position parameter	=	0.00

***** NOTICE -- Preliminary machine computations. *****
***** User responsible for assessment and interpretation. *****

WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.	0.0
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1 638.7
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	30.2

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	EXCEEDANCE DISCHARGE	PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.1424	0.2534	0.458
BULL.17B ESTIMATE	0.0	1.0000	2.1424	0.2534	0.161

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY'	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
			ESTIMATE	LOWER	UPPER
0.9950	33.7	39.7	30.6	22.5	44.7
0.9900	38.3	43.6	35.4	26.3	49.9
0.9500	54.6	57.7	52.6	40.5	68.0
0.9000	66.4	68.0	64.8	51.2	80.9
0.8000	84.6	84.2	83.5	68.0	101.0
0.5000	136.7	132.8	136.7	115.4	161.6
0.2000	225.7	222.9	228.9	189.2	280.6
0.1000	296.0	299.9	304.6	242.4	385.5
0.0400	397.9	420.1	419.6	315.0	550.1
0.0200	483.6	528.1	521.8	373.1	697.3
0.0100	577.8	653.8	640.2	435.0	867.0
0.0050	681.4	800.1	778.3	501.0	1062.0
0.0020	834.5	1031.0	997.4	595.4	1364.0
0.6667	106.7	(1.50-year flood)			
0.4292	151.5	(2.33-year flood)			

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2002 MAR 13 09:02:55

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1960	735.0		1977	95.0	
1961	174.0		1978	120.0	
1962	55.0		1979	110.0	
1963	40.0		1980	115.0	
1964	60.0		1981	120.0	
1965	234.0		1982	184.0	
1966	198.0		1983	155.0	
1967	430.0		1984	107.0	
1968	236.0		1985	120.0	
1969	84.0		1986	203.0	
1970	100.0		1987	158.0	
1971	108.0		1988	96.0	
1972	115.0		1989	315.0	
1973	222.0		1990	175.0	
1974	60.0		1991	165.0	
1975	150.0		1992	80.0	
1976	148.0		1993	200.0	

Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1960	735.0	0.0286	0.0286
1967	430.0	0.0571	0.0571
1989	315.0	0.0857	0.0857
1968	236.0	0.1143	0.1143
1965	234.0	0.1429	0.1429
1973	222.0	0.1714	0.1714
1986	203.0	0.2000	0.2000
1993	200.0	0.2286	0.2286
1966	198.0	0.2571	0.2571
1982	184.0	0.2857	0.2857
1990	175.0	0.3143	0.3143
1961	174.0	0.3429	0.3429
1991	165.0	0.3714	0.3714
1987	158.0	0.4000	0.4000
1983	155.0	0.4286	0.4286
1975	150.0	0.4571	0.4571
1976	148.0	0.4857	0.4857
1978	120.0	0.5143	0.5143
1981	120.0	0.5429	0.5429
1985	120.0	0.5714	0.5714
1972	115.0	0.6000	0.6000
1980	115.0	0.6286	0.6286
1979	110.0	0.6571	0.6571
1971	108.0	0.6857	0.6857
1984	107.0	0.7143	0.7143
1970	100.0	0.7429	0.7429
1988	96.0	0.7714	0.7714
1977	95.0	0.8000	0.8000
1969	84.0	0.8286	0.8286
1992	80.0	0.8571	0.8571
1964	60.0	0.8857	0.8857
1974	60.0	0.9143	0.9143
1962	55.0	0.9429	0.9429
1963	40.0	0.9714	0.9714

